JUN 2 8 2004

MERCHANT & GOULD P.C.

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below name, that	med inventor I hereby declare that: my re	esidence, post office address a	and citizenship are as stated below next to my
are named below) of the	e I am the original, first and sole inventor e subject matter which is claimed and for Marking Pathways of Stem Cell Differer	which a patent is sought on the	low) or a joint inventor (if plural inventors he invention entitled: Methods Using Gene ting Differentiated Cells
	ober 16, 2003 as application serial no. 10 and claimed in international no. filed		n (if applicable) (in the case of a PCT-filed fany), which I have reviewed and for which I
I hereby state that I hav any amendment referred		of the above-identified specific	cation, including the claims, as amended by
certificate listed below:	priority benefits under Title 35, United St and have also identified below any foreig on the basis of which priority is claimed:	ates Code, § 119/365 of any f n application for patent or inv	oreign application(s) for patent or inventor's ventor's certificate having a filing date before
	ons have been filed. s have been filed as follows:		
	FOREIGN APPLICATION(S), IF ANY	, CLAIMING PRIORITY UNDER	35 USC § 119
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
	ALL FOREIGN APPLICATION(S), IF ANY,	I FILED BEFORE THE PRIORITY	APPLICATION(S)
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

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	ALL FOREIGN APPLICATION(S), IF ANY,	FILED BEFORE THE PRIORITY	APPLICATION(S)	
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)	

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/418,333	16 October 2002

I acknowledge the duty to disclose information that is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (reprinted below):

§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Ali, M. Jeffer	Reg. No. 46,359		
Altera, Allan G.	Reg. No. 40,274	Lauer, Deakin T.	Reg. No. 47,735
Anderson, Gregg I.	Reg. No. 28,828	Leach III, Thomas J.	Reg. No. 53,188
Batzli, Brian H.	Reg. No. 32,960	Leonard, Christopher J.	Reg. No. 41,940
Beard, John L.	Reg. No. 27,612	Lewis, George C.	Reg. No. 53,214
Bennett-Paris, Joseph M.	Reg. No. 47,226	Liepa, Mara E.	Reg. No. 40,066
Berns, John M.	Reg. No. 43,496	Maly, John W.	Reg. No. 55,423
Blackburn, Murrell W.	Reg. No. 50,881	McDonald, Daniel W.	Reg. No. 32,044
Bortolotti, Rebecca	Reg. No. 51,488	McIntyre, Jr., William F.	Reg. No. 44,921
Brown, Jeffrey C.	Reg. No. 41,643	Mueller, Douglas P.	Reg. No. 30,300
Bruess, Steven C.	Reg. No. 34,130	Nelson, Anna M.	Reg. No. 48,935
Burke, John E.	Reg. No. 35,836	Pauly, Daniel M.	Reg. No. 40,123
	Reg. No. 32,404	Peterson, Kyle T.	Reg. No. 46,989
Byrne, Linda M.	Reg. No. 30,247	Phillips, John B.	Reg. No. 37,206
Clifford, John A.	Reg. No. 48,649	Randall, Joshua N.	Reg. No. 50,719
Cook, Jeffrey	Reg. No. 25,968	Reich, John C.	Reg. No. 37,703
Daignault, Ronald A.	Reg. No. 34,994	Reiland, Earl D.	Reg. No. 25,767
Daley, Dennis R.	•	Schmaltz, David G.	Reg. No. 39,828
Daley, William J.	Reg. No. 52,471		_
Daulton, Julie R.	Reg. No. 36,414	Schuman, Mark D.	Reg. No. 31,197
Deffner, Mark E.	Reg. No. 55,103	Schumann, Michael D.	Reg. No. 30,422
DeMaster, E. Eric	Reg. No. 55,107	Scull, Timothy B.	Reg. No. 42,137
DeVries Smith, Katherine M.	Reg. No. 42,157	Sebald, Gregory A.	Reg. No. 33,280
DiPietro, Mark J.	Reg. No. 28,707	Skoog, Mark T.	Reg. No. 40,178
Doscotch, Matthew A.	Reg. No. 48,957	Sorge, Keith M.	Reg. No. 50,865
Edell, Robert T.	Reg. No. 20,187	Stewart, Alan R.	Reg. No. 47,974
Epp Ryan, Sandra	Reg. No. 39,667	Stoll-DeBell, Kirstin L.	Reg. No. 43,164
Fitzsimmons, Karen A.	Reg. No. 50,470	Strouse, Thomas J.	Reg. No. 53,950
Frost, Roger T.	Reg. No. 22,176	Sullivan, Timothy	Reg. No. 47,981
Golla, Charles E.	Reg. No. 26,896	Swenson, Erik G.	Reg. No. 45,147
Gorman, Alan G.	Reg. No. 38,472	Trembath, Jon R.	Reg. No. 38,344
Gotfredson, Garen J.	Reg. No. 44,722	Underhill, Albert L.	Reg. No. 27,403
Gould, John D.	Reg. No. 18,223	Wahl, John R.	Reg. No. 33,044
Gresens, John J.	Reg. No. 33,112	Wang, Susan L.	Reg. No. 53,742
Haack, John L.	Reg. No. 36,154	Welter, Paul A.	Reg. No. 20,890
Hamre, Curtis B.	Reg. No. 29,165	Wier, David D.	Reg. No. 48,229
Hartman, Jodi L.	Reg. No. 55,251	Williams, Douglas J.	Reg. No. 27,054
Hennings, Mark	Reg. No. 48,982	Wong, Bryan A.	Reg. No. 50,836
Hertzberg, Brett A.	Reg. No. 42,660	Zeuli, Anthony R.	Reg. No. 45,255
Hillson, Randall A.	Reg. No. 31,838	,,	
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Hornsby, III, Alton	Reg. No. 47,299		
Johns, Nicholas P.	Reg. No. 48,995		
Johnston, Scott W.	Reg. No. 39,721		
Jordan, III, George	Reg. No. 41,880		
Kalinsky, Robert A.	Reg. No. 50,471		
Kettelberger, Denise	Reg. No. 33,924	•	
Knearl, Homer L.	Reg. No. 21,197		
Korver, Joshua W.	Reg. No. 51,894		
Kowaichyk, Alan W.	Reg. No. 31,535		
Kowalchyk, Katherine M.	Reg. No. 36,848		
Lamberty, Michael	Reg. No. 50,760		
Larson, James A.	Reg. No. 40,443		
Larry June 11.	140E. 110. TU,TTJ		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

I understand that the execution of this document, and the grant of a power of attorney, does not in itself establish an attorney-client relationship between the undersigned and the law firm Merchant & Gould P.C., or any of its attorneys.

Please direct all correspondence in this case to Merchant & Gould P.C. at the address indicated below:

Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name West	First Given Name Michael		Second Given Name
0	Residence & Citizenship	City Southborough	State or Foreign Country MA		Country of Citizenship USA
1	Mailing Address	Address 107 Middle Road	City Southborough		State & Zip Code/Country MA 01772
Sign	ature of Inventor 20	01:		Date:	
2	Full Name Of Inventor	Family Name Chapman	First Given Name Karen		Second Given Name B.
0	Residence & Citizenship	City Southborough	State or Foreign Country MA		Country of Citizenship USA
2	Mailing Address	Address 107 Middle Road	City Southborough		State & Zip Code/Country MA 01772
Sign	ature of Inventor	б <u>г</u> :		Date: 6/8	2/04

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PATENT TRADEMARK OFFICE

JUN 2 8 200

Attorney Docket No. 60141.0041USU1

· I understand that the execution of this document, and the grant of a power of attorney, does not in itself establish an attorney-client relationship between the undersigned and the law firm Merchant & Gould P.C., or any of its attorneys.

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2	Full Name Of Inventor	Family Name West	First Given Name Michael		Second Given Name
0	Residence & Citizenship	City Southborough	State or Foreign Country MA		Country of Citizenship USA
1	Mailing Address	Address 107 Middle Road	City Southborough		State & Zip Code/Country MA 01772
Sign	ature of Inventor 20	on: My hung		Date:	7-04
2	Full Name Of Inventor	Family Name Chapman	First Given Name Karen		Second Given Name B.
0	Residence & Citizenship	City Southborough	State or Foreign Country MA		Country of Citizenship USA
2	Mailing Address	Address 107 Middle Road	City Southborough		State & Zip Code/Country MA 01772
Sign	Signature of Inventor 202:			Date:	

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JUN 2 8 2004 JUN 2

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

West et al.

Examiner:

Not yet assigned

Serial No.:

10/685,693

Group Art Unit:

Not yet assigned

Filed:

October 16, 2003

Docket No.:

60141.0041USU1

Title:

METHOD USING GENE TRAPPED STEM CELLS FOR MAKING

PATHWAYS OF STEM CELL DIFFERENTIATION AND MAKING AND

ISOLATING DIFFERENTIATED CELLS

CERTIFICATE UNDER 37 CFR 1.8:

The undersigned hereby certifies that this Transmittal Letter and the paper, as described herein, are being deposited via First Class Mail in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450, on June 23, 2004.

By:_

Joseph Bennett-Paris

REVOCATION AND POWER OF ATTORNEY

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Please revoke any existing Powers of Attorney, if any, and appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the U.S. Patent and Trademark Office in connection therewith:

i atchi ana Trademan	Connection therewi		
Ali, M. Jeffer	Reg. No. 46,359	Daley, Dennis R.	Reg. No. 34,994
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Mueller, Douglas P.	Reg. No. 30,300		
Nelson, Anna M.	Reg. No. 48,935		
Pauly, Daniel M.	Reg. No. 40,123		

Please direct all correspondence in this application to Merchant & Gould PC, P.O.

Box 2903, Minneapolis, MN 55402-0903, telephone 404.954.5100.

Dated: March ______, 2004

Kristin Chrudimsky

Director of Intellectual Property

23552

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